

Table of Contents

VOLUME 83 (1992)

MAIN ARTICLES

| | |
|--|-----|
| Assessment of a computer program to detect epileptiform spikes W.E. Hostetler, H.J. Doller and R.W. Homan (U.S.A.) | 1 |
| State dependent spike detection: validation J. Gotman and L.-Y. Wang (Canada) | 12 |
| EEG changes in patients during the introduction of carbamazepine R. Besser, K. Hornung, M. Theisohn, G. Rothacher and G. Krämer (F.R.G.) | 19 |
| Quantitative analysis of the EEG during tonic REM sleep — methodology L.H. Larsen, P.N. Prinz and K.E. Moe (U.S.A.) | 24 |
| EEG markers of early Alzheimer's disease in computer selected tonic REM sleep P.N. Prinz, L.H. Larsen, K.E. Moe and M.V. Vitiello (U.S.A.) | 36 |
| Background EEG reactivity in auditory event-related potentials J.G. Van Dijk, J.F.V. Caekebeke, A. Jennekens-Schinkel and A.H. Zwiderman (The Netherlands) | 44 |
| Delayed P3 event-related potentials (ERPs) in thalamic hemorrhage M. Onofri, L. Curatola, G. Malatesta, P. Colamartino, S. Bazzano, T. Fulgenti and F. Ferracci (Italy) | 52 |
| Event-related synchronization (ERS): an electrophysiological correlate of cortical areas at rest G. Pfurtscheller (Austria) | 62 |
| Correlations between verbal memory performance and electrocorticographically determined suppression of electrical brain activity in intracarotid amobarbital tests M. Kurthen, M. Lukas, A. Hufnagel, D.B. Linke, G. Hefner, C.E. Elger and J. Schramm (F.R.G.) | 70 |
| Rapid stream stimulation and the recognition potential A.P. Rudell (U.S.A.) | 77 |
| Primary and secondary bilateral synchrony in epilepsy: differentiation by estimation of interhemispheric small time differences during short spike-wave activity K. Kobayashi, Y. Ohtsuka, E. Oka and S. Ohtahara (Japan) | 93 |
| Ictal spikes: a marker of specific hippocampal cell loss S.S. Spencer, J. Kim and D.D. Spencer (U.S.A.) | 104 |
| Comparative coherence studies in healthy volunteers and Down's syndrome patients from childhood to adult age R.G. Schmid, W.S. Tirsch, P. Rappelsberger, H.-M. Weinmann and S.J. Pöpl (F.R.G., Austria) | 112 |
| The topographical features of EEGs in patients with affective disorders K. Kano, M. Nakamura, T. Matsuoka, H. Iida and T. Nakajima (Japan) | 124 |
| Periodic activity in cerebral arousal mechanisms — the relationship to sleep and brain damage B.M. Evans (U.K.) | 130 |
| The different patterns of the photoparoxysmal response — a genetic study S. Waltz, H.-J. Christen and H. Doose (F.R.G.) | 138 |
| Late magnetic fields and positive evoked potentials following infrequent and unpredictable omissions of visual stimuli R.L. Rogers, A.C. Papanicolaou, S.B. Baumann and H.M. Eisenberg (U.S.A.) | 146 |
| Contralateral effects of cerebello-pontine angle exposure on human auditory brain-stem evoked potentials H. Pratt, W.H. Martin and J.W. Schwegler (U.S.A.) | 153 |
| An electroencephalographic comparison of effects of propofol and methohexitol R.V. Reddy, S.S. Moorthy, T. Mattice, S.F. Dierdorf and R.D. Deitch, Jr. (U.S.A.) | 162 |
| Dependence of presaccadic cortical potentials on the type of saccadic eye movement I. Evdokimidis, T. Mergner and C.H. Lücking (Greece, Germany) | 179 |
| Cortical somatosensory magnetic responses in multiple sclerosis J. Karhu, R. Hari, J.P. Mäkelä, J. Huttunen and J. Knuutila (Finland) | 192 |
| Chemosensory event-related potentials in the investigation of interactions between the olfactory and the somatosensory (trigeminal) systems A. Livermore, T. Hummel and G. Kobal (Australia, F.R.G.) | 201 |
| Evidence for terminal decline in the event-related potential of the brain E.A. Van der Wal and C.A. Sandman (U.S.A.) | 211 |
| A 10 Hz "alpha-like" rhythm in the visual cortex of the waking cat M. Chatila, C. Milleret, P. Buser and A. Rougeul (France) | 217 |
| Ictal EEG wave forms from epidural electrodes predictive of seizure control after temporal lobectomy E. Faught, R.I. Kuzniecky and D.C. Hurst (U.S.A.) | 229 |

| | |
|--|-----|
| Anterior brain electrical asymmetries in response to reward and punishment S.S. Sobotka, R.J. Davidson and J.A. Senulis (U.S.A.) | 236 |
| Negative brain potentials elicited by an unexpected color patch or word J. Katayama and A. Yagi (Japan) | 248 |
| The scalp topography of P300 in the visual and auditory modalities: a comparison of three normalization methods and the control of statistical type II error E. Naumann, C. Huber, S. Maier, W. Plihal, A. Wustmans, O. Diedrich and D. Bartussek (Germany) | 254 |
| EEG activity during estral cycle in the rat M. Corsi-Cabrera, J. Juárez, M. Ponce-de-León, J. Ramos and P.N. Velázquez (Mexico) | 265 |
| Automated interictal EEG spike detection using artificial neural networks A.J. Gabor and M. Seyal (U.S.A.) | 271 |
| Development of epileptic activity induced by iron injection into rat cerebral cortex: electrographic and behavioral characteristics A. Moriwaki, Y. Hattori, Y. Hayashi and Y. Hori (Japan) | 281 |
| Ontogenesis of nocturnal organization of sleep spindles: a longitudinal study during the first 6 months of life J. Louis, J.X. Zhang, M. Revol, G. Debilly and M.J. Challamel (France, People's Rep. of China) | 289 |
| Changes in cortical negative DC shifts due to different motor task conditions J. Niemann, T. Winkler and R. Jung (Germany) | 297 |
| Event-related potentials to repetition and change of auditory stimuli W. Ritter, P. Paavilainen, J. Lavikainen, K. Reinikainen, K. Alho, M. Sams and R. Näätänen (U.S.A., Finland) | 306 |
| On the evidence of auditory evoked magnetic fields as an objective measure of tinnitus E. Colding-Jørgensen, M. Lauritzen, N.J. Johnsen, K.B. Mikkelsen and K. Særmek (Denmark) | 322 |
| Anterior "cheek" electrodes are comparable to sphenoidal electrodes for the identification of ictal activity G.L. Krauss, R.P. Lesser, R.S. Fisher and S. Arroyo (U.S.A.) | 333 |
| Sleep deprivation in narcoleptic subjects: effect on sleep stages and EEG power density M. Tafti, G. Rondouin, A. Basset and M. Billiard (France) | 339 |
| Maturation of the coherence of EEG activity in normal and learning-disabled children E. Marosi, T. Harmony, L. Sánchez, J. Becker, J. Bernal, A. Reyes, A.E. Díaz de León, M. Rodríguez and T. Fernández (Mexico) | 350 |
| A comparison of quantitative EEG frequency analysis and conventional EEG in patients with focal brain lesions M.C. Salinsky, B.S. Oken, R.E. Kramer and L. Morehead (U.S.A.) | 358 |
| EEG in liver transplantation: visual and computerized analysis C.M. Epstein, A.M. Riether, R.M. Henderson and G.A. Cotsonis (U.S.A.) | 367 |
| Half-field sinusoidally modulated light stimulation at subject's alpha frequency K. Shinosaki, T. Inouye, S. Ukai and S. Toi (Japan) | 372 |
| Frontocentral DC-potential shifts predicting behavior with or without a motor task J.M. Morgan, M. Wenzl, W. Lang, G. Lindinger and L. Deecke (U.S.A., Austria) | 378 |
| Alterations in brain electrical activity caused by magnetic fields: detecting the detection process G.B. Bell, A.A. Marino and A.L. Chesson (U.S.A.) | 389 |

SHORT COMMUNICATIONS

| | |
|--|-----|
| Electrophysiological findings in a case of severe intrathecal baclofen overdose M. Kofler, L. Saltuari, E. Schmutzhard, K. Berek, H. Baumgartner, L. Russegger and F. Aichner (Austria) | 83 |
| Demonstration of mismatch negativity in the monkey D.C. Javitt, C.E. Schroeder, M. Steinschneider, J.C. Arezzo and H.G. Vaughan, Jr. (U.S.A.) | 87 |
| Single photon emission computed tomography study of subclinical rhythmic electrographic discharge in adults P. Thomas, O. Migneco, J. Darcourt and M. Chatel (France) | 223 |

TECHNICAL NOTE

| | |
|---|-----|
| Development of data reconstruction system of paper-recorded EEG: method and its evaluation G. Wang and M. Takigawa (Japan) | 398 |
|---|-----|

BOOK REVIEWS

| | |
|---|-----|
| New antiepileptic drugs (Epilepsy research, Suppl. 3) edited by F. Pisani, E. Perucca, G. Avanzini and A. Richens | 91 |
| Introduction to brain topography by P.K.H. Wong | 91 |
| Digital biosignal processing edited by R. Weitkunat | 92 |
| Spehlmann's EEG primer, 2nd edition, revised and enlarged edited by B.J. Fisch | 175 |
| Phasic events and dynamic organization of sleep. L.E.R.S. series, Vol. 7 edited by M.G. Terzano, P. Halász and A.C. Declercq | 175 |

| | |
|---|---|
| Hearing assessment, 2nd edition edited by W.F. Rintelmann | 175 |
| Diagnostic audiology, 2nd edition edited by J. Jacobson and J. Northern | 176 |
| Epilepsy surgery edited by H.O. Lüders | 176 |
| Epilepsy, sleep and sleep deprivation, 2nd edition edited by R. Degen and E. Rodin | 177 |
| Neurobiology of the locus coeruleus. Progress in brain research, Vol. 88 edited by C.D. Barnes and O. Pompeiano | 328 |
| Migraines and other headaches. The vascular mechanisms edited by J. Olesen | 328 |
| Genetic strategies in epilepsy research edited by V.E. Anderson, W.A. Hauser, L.E. Leppik, J.L. Noebels and S.S. Rich | 329 |
| Memory disorders. Research and clinical practice edited by T. Yanagihara and R.C. Petersen | 329 |
| Cognitive disorders – pathophysiology and treatment edited by L.J. Thal, W.H. Moos and E.R. Gamzu | 330 |
| Frontal lobe seizures and epilepsies. Advances in neurology, Vol. 57 edited by P. Chauvel, A. Delgado-Escueta, E. Halgren and J. Bancaud | 330 |
| The autonomic nervous system: an introduction to basic and clinical concepts by O. Appenzeller | 330 |
| Event-related brain research (EEG Suppl. No. 42) edited by C.H.M. Bruna, G. Mulder and M.V. Verbaten | 331 |
| Spinal cord monitoring and electrodiagnosis edited by K. Shimoji, T. Kurokawa, T. Tamaki and W.D. Willis, Jr. | 331 |
| Intraoperative neurophysiologic monitoring in neurosurgery edited by J. Schramm and A. Møller | 331 |
| Neurobiology of learning, emotion and affect edited by J. Madden, IV | 402 |
| Alzheimer's disease: new treatment strategies edited by Z.S. Khachaturian and J.P. Blass | 402 |
| Volume transmission in the brain: novel mechanisms for neurotransmissions edited by K. Fuxe and L.F. Agnati | 403 |
| Static encephalopathies of infancy and childhood edited by G. Miller and J.C. Ramer | 403 |
| Radiation injury of the nervous system edited by P.H. Gutin, S.A. Leibel and G.E. Sheline | 403 |
| <i>Letters to the Editor</i> | 169 |
| <i>Corrigenda</i> | 270 |
| <i>Society Proceedings</i> | 1P, 3P, 5P, 11P, 16P, 20P, 46P, 55P, 63P, 90P |
| <i>Announcements from the Publisher</i> | iii, 178, 404 |
| <i>Acknowledgements</i> | 405 |
| <i>Index of Authors to Volume 83 (1992)</i> | 407 |
| <i>Index of Subjects to Volume 83 (1992)</i> | 410 |
| <i>Table of Contents to Volume 83 (1992)</i> | 414 |